

Date: Wed, 6 Jul 94 01:05:53 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V94 #749  
To: Info-Hams

Info-Hams Digest                      Wed, 6 Jul 94                      Volume 94 : Issue 749

Today's Topics:

(none)  
Amateur calls on auto license plates?  
Anyone using JV-Fax6.0 ?  
Camcorder viewer needed.  
Careers in radio?  
Daily Summary of Solar Geophysical Activity for 05 July  
Does CW as a pre-req REALLY Work? (2 msgs)  
Extra-terrestrial beacon  
License Renewal  
RF Feedback into Microphone.

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 6 Jul 94 06:21:08 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: (none)  
To: info-hams@ucsd.edu

Text item: Text\_1

Date: Sat, 2 Jul 1994 02:52:17 GMT  
From: ihnp4.ucsd.edu!sdd.hp.com!col.hp.com!srigenprp!alanb@network.ucsd.edu  
Subject: CW - THE ONLY MODE!  
To: info-hams@ucsd.edu

Doug Faunt N6TQS 510-655-8604 (faunt@netcom4.netcom.com) wrote:

:: I've been considering trying to learn to use a paddle left-handed, so  
:: that I can keep a pencil in my right. Any opinions on this?  
:: I haven't learned to use a paddle yet. I'm still working on copying  
:: 13wpm.

:I am a right-hander who learned on a left-handed bug. (!) To this day,  
:I can send with bug or keyer with either hand.

:But it's not as useful as you might think. I find it very hard to  
:write and send at the same time, to the extent that I rarely even try.  
:(No problem writing and receiving at the same time.)

:AL N1AL

I, too am a rightie who learned to send right- as well as  
left-handed. I recommend it, mostly because you can adapt to  
more sending positions, such as awkward FD milk crate tables.  
Also, you will find that you can switch hands pretty quickly to  
handle the inevitable insect itch.

The key (pardon the pun) is to change the paddle configuration  
for the correct hand. Make the dits always on the thumb.  
Apparently, the brain deals with "thumb=dits and index=dahs" much  
better than "left finger=dits and right finger=dahs". Go figure.

If you want to try opposite hand sending for a while without  
rewiring your paddles (for those who lack programmable paddle  
orientation), simply turn the paddles backward and drape your  
left hand over the top of the box (in the case of MFJ). Your  
thumb and index finger will line up with the dit and dah paddles  
correctly. BTW, this technique works pretty well when you need  
to change sending hands quickly.

Like Al, I've failed miserably trying to write something while  
sending something else. I guess that's the next exercise to try.  
But then I've never been able to talk and send at the same time,  
either.

I should probably get rid of my gum while sending, too.

Regards,

-- Mike, WB4ZKA

I speak for myself, never for my employer over the INTERNET.

=====  
Mike Pulley Intel Corporation

Phoenix, Arizona (USA)                      Mike\_J\_Pulley@ccm.hf.intel.com  
Callsign: WB4ZKA  
QRP rig: MFJ-9020 20m CW  
QRP ant: Butternut vertical at ground level  
QRP interests: Operating (WAS or bust!)  
"People who say that there is no panacea have just never owned  
a Swiss army knife." -- Thomas Sowell, 12/3/93  
=====

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Date: Wed, 6 Jul 1994 01:46:35 GMT  
From: ihnp4.ucsd.edu!sdd.hp.com!col.hp.com!srngenprp!news.dtc.hp.com!  
hpscit.sc.hp.com!cupnews0.cup.hp.com!stefanis@network.ucsd.edu  
Subject: Amateur calls on auto license plates?  
To: info-hams@ucsd.edu

I just got my plates after wanting them for a long time, well a year. And I don't think it makes me any more of a target than any one else with a largish antenna on his car. I have a glass mount, so that extra-large Cellular antenna may look a bit tastier, but I never leave my radio in the car and I always lock it.  
I've been called radio geek by people who know what my HT is and yuppy by people who don't. I just take the mind that crooks are going to break in if they want to regardless of what I've got stuck to the outside of my car.  
California ham plates look just like regular vanity plates except that the call sign is centered rather than being placed on the standard 7 letter stops.

Integrated	/---/	Nick Stefanisko    [KD6PTD]
Systems	HEWLETT/hp/PACKARD	stefanis@hp-ptp.ptp.hp.com
Division	/___/	Sunnyvale, California, USA

Opinions expressed here are not those of my employer; only my fingers are to blame.

-----  
Date: Tue, 5 Jul 1994 23:04:00 GMT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!agate!iat.holonet.net!svarbbs!  
darryl.linkow@network.ucsd.edu  
Subject: Anyone using JV-Fax6.0 ?  
To: info-hams@ucsd.edu

PR>I have recently got a copy of this great program.  
PR>I have only used it for weather fax so far, that is Wx charts  
PR>broadcast by AXM from canberra.

PR>I tried using the Listening Post i/f which uses an XR2211. However  
PR>I could not find a suitable combination of pins connected, i/f selection  
PR>in JVFX to get it to work.

PR>In desperation I built the so-simple 741 i/f comparator and it  
PR>works beautifully.

PR>My question is: how do I use the 2211 properly, it must be better  
PR>with FSK decoding, filtering etc, shouldn't it??

Paul, do you have schematics for these interfaces? I would like to  
get copies on disk or paper. Where might I obtain these?

\* OLX 2.2 \* Darryl Linkow (818)346-5278 9 am - 5 pm PDT

-----  
Date: 5 Jul 1994 23:19:49 -0700  
From: nntp.crl.com!crl.crl.com!not-for-mail@decwrl.dec.com  
Subject: Camcorder viewer needed.  
To: info-hams@ucsd.edu

Hello all-

I am interested in making some "VR" glasses except instead of using small  
computer screens or whatever they are, I would like to use the small  
screen that is looked into when you use a camcorder. Does anybody have  
any idea where I could obtain these? I would appreciate addresses,  
phone#'s, and, prices. Thanx in advance.

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Date: 5 Jul 1994 23:48:25 -0400  
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!news.intercon.com!  
news1.digex.net!digex.net!not-for-mail@network.ucsd.edu  
Subject: Careers in radio?  
To: info-hams@ucsd.edu

In article <brett\_miller.362.000E0498@ccm.hf.intel.com>, Brett Miller - N7OL  
wrote:

>

> Like most people, I'm still looking for the perfect job. I am looking for  
> suggestions in radio-related careers. I have an engineering background, but  
> don't really want to work ON radio equipment (design), I'd prefer working WITH  
> radios. I was thinking about being a radio consultant (working with companies  
> to meet their radio needs), but wasn't sure if there was such a thing.

> Anybody have thoughts on radio related careers?  
>  
> Thanks  
>  
>  
> Brett Miller N70LQ                      brett\_miller@ccm.hf.intel.com  
> Intel Corp.  
> American Fork, UT

Bret,

I'm in the communications consulting field; our major client base is the government plus some commercial (secure communications). I design and integrate comm systems in a multitude of applications. I've designed covert antennas and electronically rotatable arrays. It's about as close to playing ham radio as you're going to get. Look to companies like Watkin's Johnson, or as a start, some national consulting firms that specialize in secure communications ( a fast growing industry).

What did I bring to the table? 14 years design experience using ASICs, FPGA's (Xilinx), A/D and D/A systems, high speed Fiber-Optic interfaces design; basically a background in analog/digital design. The other pluses were my General Class Commercial Radiotelephone license, and my General ham ticket, which 'networked' me in the door. (Helps when your prospective employer is a ham also).

Call some of your contracting agencies and see who their clients are and if you can fill any spots. This a good way to get your foot in the door, and gives both you and your employer a 'try before you buy' period. Good luck.

Andy N3LCW

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Date: Tue, 5 Jul 1994 21:01:16 MDT  
From: ihnp4.ucsd.edu!library.ucla.edu!psgrain!nntp.cs.ubc.ca!alberta!ve6mgs!  
usenet@network.ucsd.edu  
Subject: Daily Summary of Solar Geophysical Activity for 05 July  
To: info-hams@ucsd.edu

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DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

05 JULY, 1994

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(Based In-Part On SESC Observational Data)

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 05 JULY, 1994

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NOTE: Electron fluence at greater than 2 MeV continued at moderate to high levels.

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 186, 07/05/94  
10.7 FLUX=083.4 90-AVG=079 SSN=038 BKI=2121 0222 BAI=005  
BGND-XRAY=A4.3 FLU1=2.1E+06 FLU10=3.9E+04 PKI=2221 2323 PAI=007  
BOU-DEV=013,009,017,007,002,015,010,017 DEV-AVG=011 NT SWF=00:000  
XRAY-MAX= B1.5 @ 1655UT XRAY-MIN= A3.5 @ 1920UT XRAY-AVG= A5.4  
NEUTN-MAX= +007% @ 1810UT NEUTN-MIN= -002% @ 1320UT NEUTN-AVG= +0.1%  
PCA-MAX= +1.2DB @ 1810UT PCA-MIN= -0.3DB @ 2000UT PCA-AVG= +0.0DB  
BOUTF-MAX=55316NT @ 0208UT BOUTF-MIN=55277NT @ 1727UT BOUTF-AVG=55304NT  
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+082,+000,+000  
GOES6-MAX=P:+134NT@ 2109UT GOES6-MIN=N:-048NT@ 0123UT G6-AVG=+110,+031,-016  
FLUXFCST=STD:080,080,080;SESC:080,080,080 BAI/PAI-FCST=010,015,015/012,016,016  
KFCST=2234 1222 2234 2444 27DAY-AP=010,010 27DAY-KP=4233 2222 2344 2122  
WARNINGS=  
ALERTS=  
!!END-DATA!!

NOTE: The Effective Sunspot Number for 04 JUL 94 was 25.6.  
The Full Kp Indices for 04 JUL 94 are: 3- 3o 3- 2+ 2+ 3- 3- 3-  
The 3-Hr Ap Indices for 04 JUL 94 are: 12 15 13 9 10 12 11 12  
Greater than 2 MeV Electron Fluence for 05 JUL is: 6.1E+08

SYNOPSIS OF ACTIVITY

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Solar activity was very low. No optical flares were reported. Region 7742 (S10W40) is simplifying. Region 7746 (N10E35) is growing.

Solar activity forecast: solar activity is expected to be very low to low. Region 7742 is still the most likely flare producer.

The geomagnetic field was mostly quiet. The greater than 2 MeV electron flux at geosynchronous altitude was high.

Geophysical activity forecast: the geomagnetic field is expected to be quiet to unsettled for the next day, becoming unsettled to active for the remainder of the forecast period

due to a recurrent disturbance.

Event probabilities 06 jul-08 jul

Class M	05/01/01
Class X	01/01/01
Proton	01/01/01
PCAF	Green

Geomagnetic activity probabilities 06 jul-08 jul

A. Middle Latitudes	
Active	15/30/30
Minor Storm	05/15/15
Major-Severe Storm	05/05/05
B. High Latitudes	
Active	15/30/30
Minor Storm	05/15/15
Major-Severe Storm	05/05/05

HF propagation conditions were normal over all regions today. Near-normal propagation should continue on 06 July. On 07 July, a recurrent coronal-hole related disturbance should begin affecting levels of high-latitude geomagnetic activity. This is expected to bring minor signal degradation to some high latitude night-sector paths, particularly those on transauroral circuits.

COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

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REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 05/2400Z JULY

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NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
7742	S10W40	232	0100	CA0	04	008	BETA	
7746	N10E35	157	0190	CS0	04	010	BETA	
7743	S10W26	218					PLAGE	
7745	N08W26	218					PLAGE	

REGIONS DUE TO RETURN 06 JULY TO 08 JULY

NMBR	LAT	LO
NONE		

LISTING OF SOLAR ENERGETIC EVENTS FOR 05 JULY, 1994

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BEGIN	MAX	END	RGN	LOC	XRAY	OP	245MHZ	10CM	SWEEP
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2104 2109 2114 7746 N10E34 B1.4 SF 470

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 05 JULY, 1994

-----  
BEGIN MAX END LOCATION TYPE SIZE DUR II IV  
NO EVENTS OBSERVED

INFERRED CORONAL HOLES. LOCATIONS VALID AT 05/2400Z

-----  
ISOLATED HOLES AND POLAR EXTENSIONS  
EAST SOUTH WEST NORTH CAR TYPE POL AREA OBSN  
NO DATA AVAILABLE FOR ANALYSIS

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

-----  
Date Begin Max End Xray Op Region Locn 2695 MHz 8800 MHz 15.4 GHz  
-----  
04 Jul: 0323 0327 0344 B1.1  
0405 0416 0422 B1.1  
0754 0756 0758 B2.6  
0931 0937 0940 B1.7  
1132 1135 1139 B1.7  
1801 1815 1830 B4.9

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

-----  
C M X S 1 2 3 4 Total (%)  
-- -- -- -- --  
Uncorrelated: 0 0 0 0 0 0 0 0 006 (100.0)

Total Events: 006 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

-----  
Date Begin Max End Xray Op Region Locn Sweeps/Optical Observations  
-----  
NO EVENTS OBSERVED.

NOTES:

All times are in Universal Time (UT). Characters preceding begin, max,



and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

II	= Type II Sweep Frequency Event
III	= Type III Sweep
IV	= Type IV Sweep
V	= Type V Sweep
Continuum	= Continuum Radio Event
Loop	= Loop Prominence System,
Spray	= Limb Spray,
Surge	= Bright Limb Surge,
EPL	= Eruptive Prominence on the Limb.

\*\* End of Daily Report \*\*

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Date: 5 Jul 1994 23:48:09 -0400  
From: ihnp4.ucsd.edu!swrinde!emory!europa.eng.gtefsd.com!uhog.mit.edu!  
news.intercon.com!news1.digex.net!digex.net!not-for-mail@network.ucsd.edu  
Subject: Does CW as a pre-req REALLY Work?  
To: info-hams@ucsd.edu

In article <2vcovn\$emh@cnn.MOTOWN.GE.COM>, Larry wrote:

> or will we just continue to see a "reflection of our societies"  
> on the air no matter what? I don't have an answer, just an opinion. .... ..  
>  
>  
> Larry Weissman AD3Y

I couldn't have said it better...

Andy

(Gee, I didn't think I was going to start such a ruckus over Code/HF; good to see people who sincerely care...)

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Date: 5 Jul 1994 23:47:55 -0400

From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!  
newsxfer.itd.umich.edu!zip.eecs.umich.edu!panix!news.intercon.com!news1.digex.net!  
digex.net!not-for-mail@network.ucsd.edu  
Subject: Does CW as a pre-req REALLY Work?  
To: info-hams@ucsd.edu

In article <2vccpc\$bbb@netline-fddi.jpl.nasa.gov>, Richard Spear wrote:

>  
> andy - i'm not sure who was guilty of poor operating practice ... seems to  
> me that the two of you could move alot easier than an entire scheduled  
> net. if i were requested reasonably politely to move for a net, i'm sure  
> that i would do it.

>  
> btw, i'm a tech+ and use code almost exclusively on hf (even tho' 10m  
> phone \*is\* fun!).

>  
> regards, richard kd6lwd

>  
Richard,

I gladly USED to move off to another frequency, this past year I guess I'm being the brazen one, by some people's standards. I ran nets on 40M when I first got on the air, using a kilowatt, ground mounted 1/4 wave 40M vertical, and 40 buried radials. I had an excellent signal and ran net control on many occassions. There were times we moved the net up/down frequency if the main freq was in use.

My favorite is 'colliding' nets. I still get a kick out of listening to some folks hashing it away on 80M.

I'm glad we've got the WARC bands, 17M being my favorite. I've yet to run into that problem their. Congrats on the tech + and hope to work you one day...

Andy

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Date: Tue, 05 Jul 1994 20:15:00 PST  
From: ihnp4.ucsd.edu!library.ucla.edu!psgrain!nntp.cs.ubc.ca!mala.bc.ca!epaus!ham!  
emd@network.ucsd.edu  
Subject: Extra-teressial beacon  
To: info-hams@ucsd.edu

mwhite@mitre.org (Michael White) writes:

>Arik Baratz wrote:

>

>>...if we synchronize all power stations across the globe... Could we possibly  
>transmit this 50Hz signal out to space, maybe to be used as a radio-lighthouse,  
>or a UFO beacon of some sort?

>

>The Earth already radiates like a small star over most of the  
>electromagnetic spectrum due to broadcasting, microwave, and radar use. If  
>there are any aliens within 60 light-years or so (commercial broadcasting  
>began about 60 years ago) they've already heard us. The next question is:  
>"Why haven't they answered?". There are many possible answers, the most  
>popular of which are:

>

>1) There's nobody there  
>2) There's somebody there, but they're just not listening  
>3) There's somebody there, they heard us, but they just don't care  
>4) There's somebody there, they heard us, but they're paranoid  
>5) There's somebody there, they heard us, and they're on their way to take  
>over

>

>My guess is "None of the above". I go with the "It's a big Galaxy" theory.  
>Consider, what Lee DuBridge, Presidential Science advisor, said: "Either  
>Mankind is alone in the galaxy, or he is not: either prospect is  
>mind-boggling".

Actually, there's one more you haven't mentioned.

6. There's somebody there, they heard us, and they're staying as far away  
from us as possible. (Must have heard RL).

emd@ham.island.net (Robert Smits Ladysmith BC)

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Date: 6 Jul 94 02:54:01 -0500

From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!ulowell!woods.uml.edu!  
martinja@network.ucsd.edu

Subject: License Renewal

To: info-hams@ucsd.edu

In article <9406057734.AA773454716@smtpgty.anatcp.rockwell.com>,  
William\_A.\_Kirsanoff@ccmail.anatcp.rockwell.COM (William A. Kirsanoff) writes:

> Jim, WK1V (sorry, I didn't capture his address) writes:

>

> I can't tell who replied to whom now but looks like some  
> misinformation is being passed along here. Eric, you MAY NOT  
> operate until you receive a new license from the FCC. I'll tell  
> you why:

>

> Well, misinformation is certainly being passed, the question is, by whom?

> Yes he may continue to operate!

Okay, sorry I didn't cancel my post soon enough. After posting it I read and re-read to the point I wasn't really sure what the intention was. It looked to me like the process had to occur before the expiration of the license in order for the operator to maintain operating privileges.

I don't ever mean to lead anyone astray. And since you mention this was hashed out a year ago (before I got on-line) I imagine someone in that thread came up with the correct information. And I will gladly take your word for it.

It seems that clarification is in order though. Or at least elaboration of the rule.

Cheers!

-jim- WK1V

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Date: 6 Jul 1994 06:39:55 GMT

From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!news.tamu.edu!cschmidt@network.ucsd.edu

Subject: RF Feedback into Microphone.

To: info-hams@ucsd.edu

Hey Guys, you all know alot about RF and Radio stuff. I am kinda new at this but I have learned a few things. However I don't know how to make RF filters.

I have an RCI 2950 transciever with a Texas Star DX 667V amplifier and a truck stop Special antenna(1/2 wave Base Loaded with about 3.5 ft whip on Magnet-Mount base. Any how I have a problem When I am talking on either AM or SSB. When keyed up, If I touch the mike to my face or mouth while talking it squeals. On AM it is not so bad, but on SSB it is fine till I start talking and then it stays keyed all the way up and squeals. I have tried and tried to adjust the mike gain to where it will not squeal, but it doesn't help it.

I was wondering if What I need was to somehow rig up a RF filter at the Mike Element to keep it from doing this. It is the stock mike. I put a ceramic capactor across the element and it helped it on AM but made it worse on SSB. I am Totally Frustrated. It does not squeal when I run the RAdio without the amp on. It seems I have heard before that those Metal mike elements can act like a capactor or a conductor for RF. But I don't know for sure.

Any help would be very appreciated. I miss talking DX and local without the squeal. Please help me if you can. I check this rec. at least once a day... Well, thanx in advance.

Chris  
Houston Tx.

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Date: 5 Jul 1994 23:48:17 -0400  
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!uhog.mit.edu!news.intercon.com!news1.digex.net!digex.net!not-for-mail@network.ucsd.edu  
To: info-hams@ucsd.edu

References <Cs2n7G.Dx9@srigenprp.sr.hp.com>,  
<1994Jun28.121648.16126@seastar.seastar.org>, <32616@uswnvg.uswnvg.com>  
Subject : Re: AEA IsoLoop - Opinion

While on the subject of Isoloops, I worked AA9GT in Wisconsin today on 40M mobile and he swears by his ISOTRON that he uses for 80M (he has a tower, 3 ele for 10-20, 40M add-on for beam). That's the first report on the Isotron I've heard.

BTW, the one of the best fringe benefits I've had is 30M CW. The loop is so narrow on b/w that it makes using that band in the summer a pleasure compared to a full size.

Andy

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Date: 5 Jul 1994 23:48:04 -0400  
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!nic-nac.CSU.net!charnel.ecst.csuchico.edu!yeshua.marcam.com!zip.eecs.umich.edu!panix!news.intercon.com!news1.digex.net!digex.net!not-for-mail@@.  
To: info-hams@ucsd.edu

References <ZcP6kiubGcgV066yn@access.digex.net>,  
<2vcapc\$4lm@search01.news.aol.com>, <hawley.773439481@aries>.edu  
Subject : Re: Does CW as a pre-req REALLY Work?

In article <hawley.773439481@aries>, Chuck Hawley wrote:

>  
> There are lots of nice people on 75 Meters...I think a lot of the  
> skumbags you hear are at night, and full of booze.  
> I talk to a bunch of good people on 3.875 MHz., everybody's welcome.

> I obviously can't speak for everyone, but in general, checkin's are  
> well received and encouraged to join in. I notice that in the morning  
> most frequencies are friendly. Go ahead and upgrade. We need you.  
>  
> Chuck Hawley, KE9UW in Urbana, Illinois  
> hawley@aries.scs.uiuc.edu  
> School of Chemical Sciences, Electronic Services  
> University of Illinois, Urbana-Champaign  
>

Chuck,

No one should be discouraged from upgrading due to the mal-contents on HF. Ironically, many amateurs feared the worse when the no-code was started and I think it's brought in some of the most decent people I've yet met on the VHF/UHF bands. What I have seen the past 17 years is the HF bands degrade (20M and lower, 160M still seems decent, though). What we may be experiencing are the dying throes of elitists who will ultimately disappear from the HF bands in the future and make room for a more progressive, contemporary lot. The HF bands, after all, are NOT in danger of being removed (no commercial interest there, not enough bandwidth; UHF and above, that's another story...).

Andy

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End of Info-Hams Digest V94 #749

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